



Gulf of Mexico Harmful Algal Bloom Bulletin

10 July 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: July 6, 2006

Conditions Report

A harmful algal bloom has been identified in Lee and northern Collier Counties. Patchy low impacts are possible in Lee County today through Thursday. Patchy moderate to high impacts are possible for northern Collier County today, Tuesday night, and Wednesday. Patchy low impacts are possible Tuesday and Thursday. Reports of dead fish and discolored water are possible.

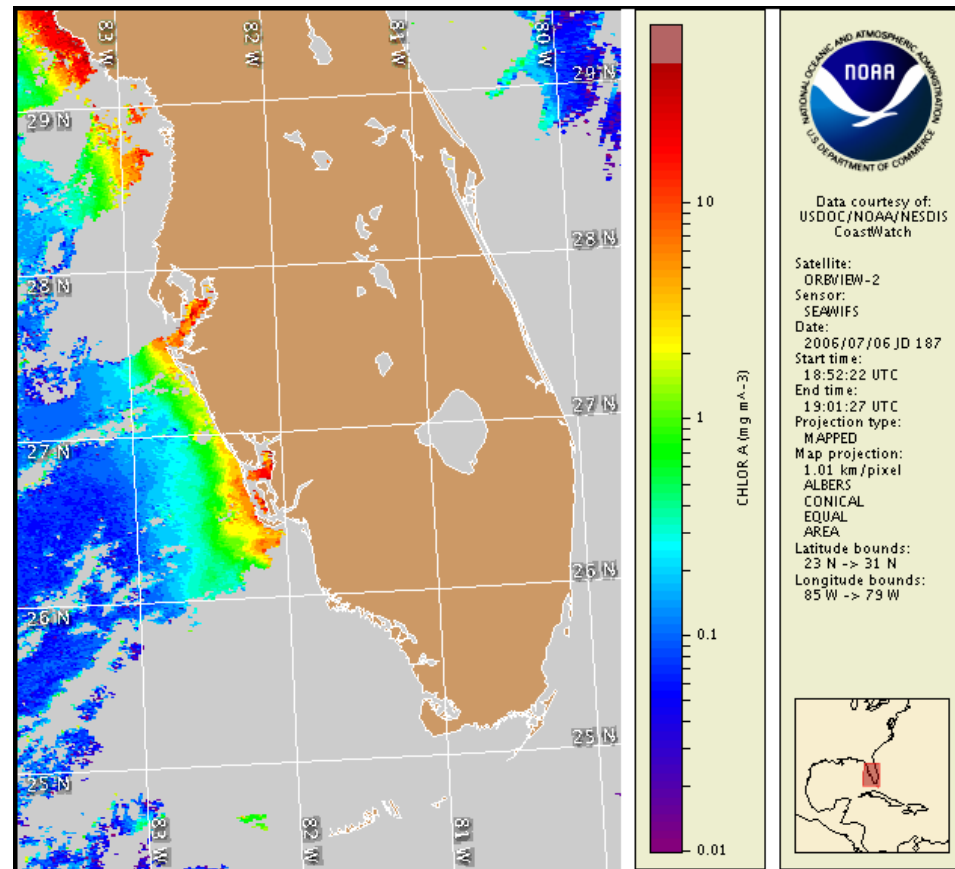
Analysis

A harmful algal bloom continues in Lee County and two new high concentration samples have been found in northern Collier County (FWRI; 7/7/06). Analysis is limited due to cloudy imagery since the last bulletin. The July 6th image (shown) illustrates the continuance of a patchy band of elevated chlorophyll up to 18 km offshore from Charlotte County to an unknown southern extent. Chlorophyll concentrations offshore of Charlotte and Lee Counties are generally $3 \mu\text{g/L}$ with hot spots of up to $7 \mu\text{g/L}$. Sampling has confirmed there are no *Karenia brevis* concentrations gulfside of Lee County (FWRI; 7/7). The feature offshore of Sanibel Island noted in the last bulletin has generally increased in chlorophyll concentration (up to $11 \mu\text{g/L}$). Patches of high chlorophyll have been noted at $82^{\circ}4'21''\text{W}$, $26^{\circ}21'7''\text{N}$ ($10 \mu\text{g/L}$) and $82^{\circ}11'34''\text{W}$, $26^{\circ}20'31''\text{N}$ ($8 \mu\text{g/L}$). Recommend continued offshore sampling. Overall, easterlies may reduce impacts alongshore and cause slight transport offshore. However, southeasterlies on Tuesday night and Wednesday may increase impacts in Collier County.

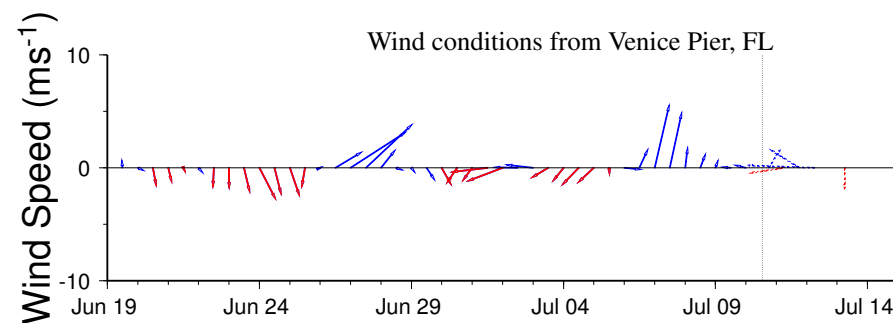
~Fenstermacher, Keller & Urizar

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

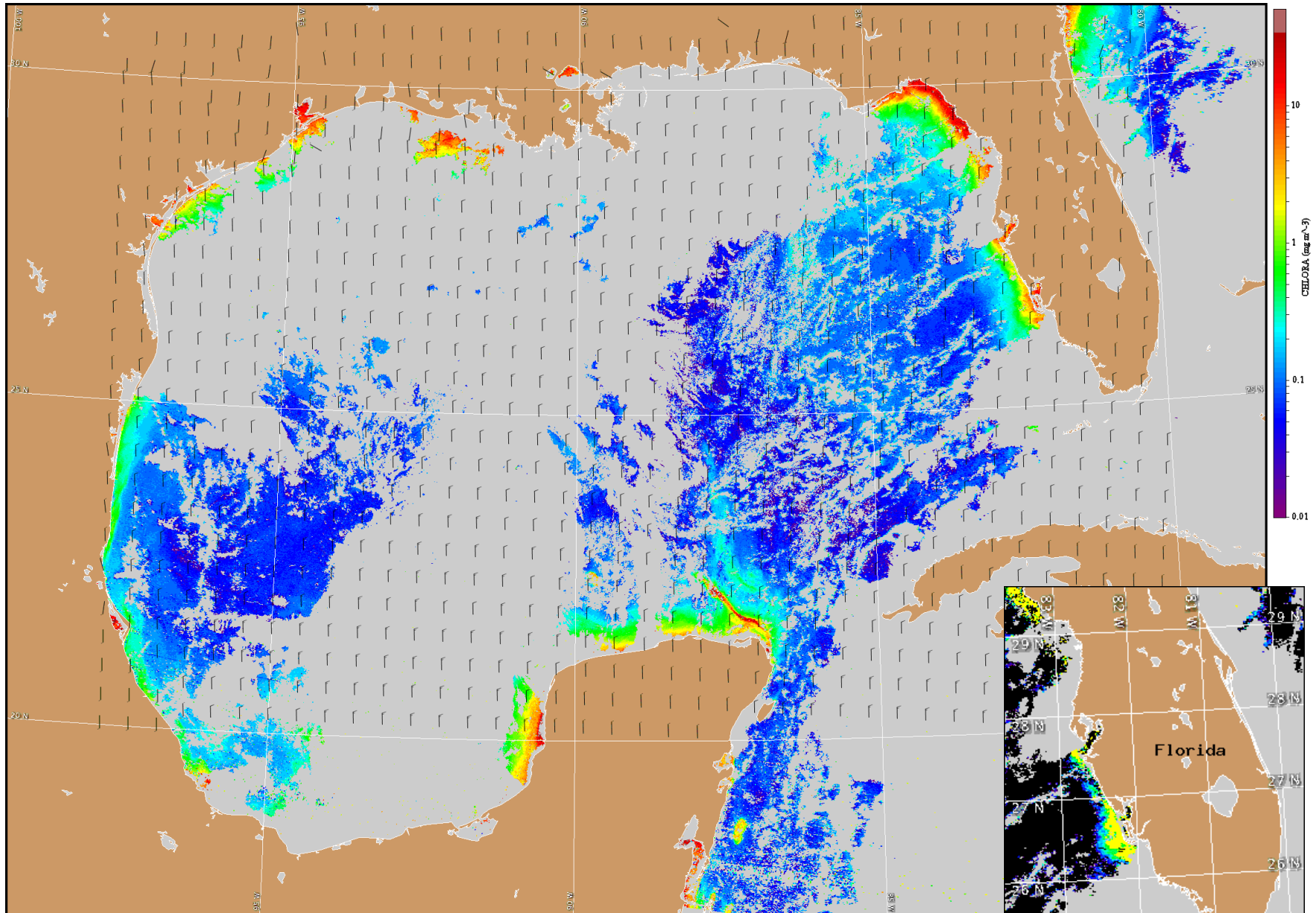


Satellite chlorophyll image with possible HAB areas shown by red polygon(s).



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Onshore winds this afternoon followed by easterlies tonight & Tuesday (10 knots; 5 m/s). Southeasterlies Tuesday night and Wednesday followed by easterlies Wednesday night through Thursday (5-10 knots; 3-5 m/s).



Satellite chlorophyll image and forecast winds for July 11, 2006 12Z.

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).